

## Muon Campus AIP

## Change Request Form

1) DATE: 4/16/14	2)WBS: Cryo1	3) Originator: Ken Domann & A	
		3) Originator: Ken Domann	
4) WBS Description Cryo1.04.06 Cryo I		Tasks: Cryo1.04.04.07.03 Refrigeration	ion Syst Transfer Lines and
Ciyor.04.00 Ciyo i	nter connect 1 iping.	,	
(1) Add M&S to the T			sts approval for two items.  ove the effectiveness of the transfer line
		MC-1 Exp Hall Headers by the piping ease equals \$80,390 in fully burdened	contractor. The actual award was less than the M&S.
This change results in	\$48,940 being returned	l to contintency.	
		T.	
impact. See Attachme		chments if needed): N/A	
	•		
B) Secondary Impact	& Other Comments:	N/A	
9) Approvals: AIP Project Manager	: <i>A</i> .	V C. C.	2/1/11/
	. rei a	Cleen	Date: <u>4/16/14</u>
AIP Project Coordina	itor: Ma.	S -	Date: 4/14/14
AIP Project Coordina AD Div Director:	itor: Many	) [	Date: <u>4/16/17</u> Date:

UID WBS	WBS	стс	Name	Original Base M&S		
H	1 Cryo1		Muon Campus Cryogenics - AIP		- 1	Ceru Octy
833	833 Cryo1.04		Cryogenic plant sub systems	\$4,000,000	/02,400,20	-\$39,673
2			c. Jogethe plant and systems	\$1,820,700	\$1,781,027	-\$39,673
000	033 Cry01.04.04	A1301.04.04	AL301.04.04 Cryo Refrigerator System	\$733,765	\$759.165	\$25,400
2488	2488 Cryo1.04.04.07		Refrig Syst Distribution System	\$320 000	¢245 500	¢35 500
2857	2857 Cryo1.04.04.07.03		Refrigeration Syst Transfer Lines	¢25,000	\$50.500	\$25,500
2860	CO CO TO NO NO 1047	10010101		7000	000,000	000,02¢
2000	07.03.03	A1301.04.04	A1301.04.04   Ketrigeration Syst Transfer Lines Installation	\$10,000	\$35,500	\$25,500
4847	2686 Cryo1.04.06	A1301.04.06	A1301.04.06 Cryo Interconnect Piping	\$427.537	\$362 364	-¢65 172
2912	2912 Cryo1.04.06.18	A1301.04.06	A1301.04.06 Interconnect Piping Contractor Install MC-1 Exp Hall Headers	\$101,573	\$36.400	\$36,400 -\$65,173

	Grand Total	A1301.09 Cryo Muze Acceptance Tests	Signature of the state of the s	A1301 08 Ctvo g-7 Acceptance Torte	A13U1.U/ g-2 Cryo Checkout		A1301.06 Cryo Safety Documents	o = nicenime xxiii/struuii	A1301.05.02 g-2 Interface Connection	A1301.U5.U1 Mu2e Interface Connection	**************************************	A1301.04.07 Cryo Interconnect Electrical & Controls		A1301.04.06 Cryo Interconnect Piping		A1301.04.05 Cryo Compressor System		A1301.04.04 Cryo Refrigerator System		A1301.04.03 Cryo ODH system	SEPTEMBER CLIYU Sas Hidhagement System	Alani or or car managers	ALDULUH.OL CIYO ENZ SYSTEM	A1301 OV 01 0-3-1-11 W.	A1301.03 Cryo Basic Engineering	The second control of	A1301.02.01.05 Cryo AIP General Project OS - FY17	SALE CONTRACTOR CONTRA	A1301.02.01.04 Cryo AIP General Project OS - FY16	The second of th	A1301.02.01.03 Cryo AIP General project OS EV-E	CIDVIIVE DIVE CIYO AIF GENERAL PROJECT US - FY14	A1201 03:01 03:01 An 02:11 12:11	A1301.02.01.01 Cryo AIP General Project OS - FY13	Work Package	Control Account
Scheduled	Scheduled	Scheduled 3/28/17	9/29/14	Scheduled	10/31/14	Scheduled	Scheduled	8/19/13	Scheduled	5/22/14	Scheduled	6/17/13	Scheduled	7/26/13	Schoduled ST//13	Scheduled	6/17/18	Scheduled	5/5/14	Scheduled	6/17/13	Scheduled	8/30/13	Scheduled	6/17/13	Scheduled	3/12/16 John Palling	Scheduled \$7.27.15	Scheduled	9/23/14	Scheduled	9/23/13	Scheduled	8/1/13		Start
0.00 . 69	0.00	0.00 4/24/17	10/24/14	0.00						3/27/17			7/ +1/00/2											ì		000	0.00	9/22/16	0.00	9/22/15				9/20/13	FY12 FY13	Finish
658.34 3,390.10	0.00 0.00	0.00 11.72		0.00			27.20 0.00																						0.00 3.20		3.59 128.89	13	35	07)///O	Finish	Actual
714.61 1,57																3																		FY15 FY16	Start	Forecast
1,577.32 698.75	4/24/17 0.00 104.33															19.40 0.00													0.00 0.00			0.00 0.00			sh WBS	
7,039.12		119.75										727.57				1 700 15									127.34		141.13	107.00		132.49		51.35		Cumulative	<b>.</b>	

	Race	,111						
Control Account	Start	Finish	Start	Finish	Forecast		CAM	1
Work Package			FY13	FY14	EV15	716	WBS	
A1301.02.01.01 Cryo AIP General Project OS - FY13	8/1/13	9/20/13		9/20/13	6/17/13	0/100/10	11.	Cumulative
	Scheduled		51.35	0.00	0.00	0.00	00	) E1 DE
AISOLUZIOLUZICIYO AIF General ProjectiOS-FY14	9/23/13 Schodulad	9/22/14	9/23/13		9/23/13	9/22/14		
A1301.02.01.03 Cryo AIP General Project OS - FY15	9/23/14	9/22/15	5.59	128.89	00.0	0.00	0.0	0 132.49
	Scheduled	0.00	0.00	3.20	133.89	0.00	00	
A1301.02.01.04 Cryo Air General Project OS- FY16	9/23/15	9/22/16			9/23/15	9/22/16	0.0	
	Scheduled	0.00	0.00	0.00	3.28	137.85	0.0	
ALSULUZULUS Cryo, AIP General Project OS - FY17	9/23/16	6/22/17	14.5		9/23/16	6/22/17	o:	
A 1201/102 Prop Basic Springs in a	Scheduled	0.00	0.00	0.00	0.00	3.98	123.3	
ALOUL US CIYO basic Engineering	6/17/13	5/26/17	6/17/13		6/17/13	5/26/17		
1301 04 01 020 LIB States	Scheduled	0.00	33.09	234.74	77.84	80.34	53.5	
STORTOT OF OF STATE	8/30/13	9/2/14	8/30/13		8/30/13	9/2/14		
A1301.04.02 Cevo Gas management system	Scheduled	0.00	4.52	442.82	0.00	0.00	0.00	
	Scheduled	000	£1//1/a	120.00	6/17/13	7/14/14		
A1301.04.03 Cryo ODH system	5/5/14	8/76/14		1/8.03	0.00	0.00	0.00	
	Scheduled	0.00	000	49 67	000	8/26/14		
A1301.04.04 Cryo Refrigerator System	6/17/13	2/1/16	6/17/13	10:01	6/17/13	3/1/20	0.00	
	Scheduled	0.00	149.08	1,097.11	105.12	319.40	0.00	
ALSULU4.US. Cryo compressor System	6/17/13	9/23/14	6/17/13		6/17/13	9/23/14	0.00	
A1301 04 06 Conditions and Disjoin	Scheduled	0.00	59.45	366.94	0.00	0.00	0.00	
	//26/13	7/30/14	7/26/13		7/26/13	7/30/14		
A1301.04.07 Constate reconnect Flattical & Controls	Scheduled	0.00	225.59	582.36	0.00	0.00	0.00	
	6/1//13	5/23/14	6/17/13		6/17/13	5/23/14		
A1301.05.01 Mu2e Interface Connection	Scheduled	0.00	46.63	119.53	0.00	0.00	0.00	
	C-h-d-illod #1/77/C	3/2//1/			5/22/14	3/27/17		
A1301.05.02 g-2 Interface Connection	8/19/13 Scrieduled	9/20/13	0.00 8/19/13	69.54	214.73	1,035.76	341.59	
	Scheduled	0.00	27.20	0.00	000	000 CT/07/6	2	
ALSULTUG CITYO STREET DOCUMENTS	10/1/13	9/2/14	10/1/13		10/1/13	9/2/14	0.00	
A1301.07.p.2 (Pro Charleon)	Scheduled	0.00	0.00	154.53	0.00	0.00	0.00	
	10/31/14	5/22/17			10/31/14	5/22/17		
A1301.08 Cryo g-2 Acceptance Tests	Scheduled	0.00	0.00	0.00	71.72	0.00	75.95	
	Cohodulad +1/62/6	10/24/14			9/29/14	10/24/14		
A1301.09 Cryo Muze Acceptance Tests	3/18/17 3/18/17	46767	0.00	11.72	108.03	0.00	0.00	
	Scheduled	000	000	2	3/28/17	4/24/17		
Grand Total		2700	0:00	0.00	0.00	0.00	104.33	
	Scheduled	0.00	658.34	3,439.04	714.61	1.577.32	698 <b>7</b> 5	7 000 05
					i	1,000	0000	